



Monday, July 24, 2017

Attn: Mr. Keith Gammell
Barnhardt Mfg. Co.
247 Main Rd
P.O. Box 3
Colrain, MA 01340

Project ID: JULY NPDES
Sample ID#s: BY57656

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 24, 2017

FOR: Attn: Mr. Keith Gammell
Barnhardt Mfg. Co.
247 Main Rd
P.O. Box 3
Colrain, MA 01340

Sample Information

Matrix: WASTE WATER
Location Code: BARNHARD
Rush Request: Standard
P.O.#: G9085

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date

07/12/17
07/12/17

Time

7:00
16:16

Laboratory Data

SDG ID: GBY57656
Phoenix ID: BY57656

Project ID: JULY NPDES
Client ID: EFFLUENT

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Copper	0.032	0.003	mg/L	1	07/14/17	LK	E200.7
B.O.D./5 day	< 5.3	5.3	mg/L	3	07/12/17 17:50	RVM/RM	SM5210B-01,-11
C.O.D.	189	10	mg/L	1	07/14/17	MSF	SM5220D-97,-11
Ammonia as Nitrogen	0.85	0.25	mg/L	5	07/21/17	WHM	E350.1
Nitrite-N	0.031	0.010	mg/L	1	07/13/17 19:35	MI	E353.2
Nitrate-N	38.8	0.40	mg/L	20	07/13/17 19:38	MI	E353.2
Phenolics	< 0.015	0.015	mg/L	1	07/13/17	BS	E420.4
Nitrogen Tot Kjeldahl	8.40	0.50	mg/L	5	07/21/17	WHM	E351.1
Phosphorus, as P	6.02	0.25	mg/L	25	07/18/17	MA	SM4500PE-99,-11
Total Suspended Solids	26	10	mg/L	2	07/13/17	SD	SM2540D-97,-11
Total Metals Digestion	Completed				07/13/17	AG	

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

July 24, 2017

Reviewed and Released by: Deb Lawrie, Project Manager



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QA/QC Report

July 24, 2017

QA/QC Data

SDG I.D.: GBY57656

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 393651 (mg/L), QC Sample No: BY58069 (BY57656)													
<u>ICP Metals - Aqueous</u>													
Copper	BRL	0.003	0.037	0.036	2.70	102			109			75 - 125	20



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QA/QC Report

July 24, 2017

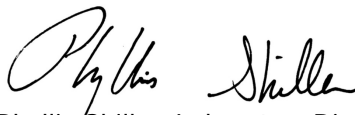
QA/QC Data

SDG I.D.: GBY57656

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 393535 (mg/L), QC Sample No: BY56392 (BY57656)													
Phenolics	BRL	0.015	<0.015	<0.015	NC	109			109			90 - 110	20
QA/QC Batch 393734 (mg/L), QC Sample No: BY57276 (BY57656)													
C.O.D.	BRL	10	<10	<10	NC	98.4			99.3			85 - 115	20
Comment: Additional: LCS acceptance range is 85-115% MS acceptance range 75-125%.													
QA/QC Batch 393570 (mg/L), QC Sample No: BY57276 (BY57656)													
Total Suspended Solids	BRL	5.0	<5.0	<5.0	NC	94.0						85 - 115	
QA/QC Batch 393465 (mg/L), QC Sample No: BY57327 (BY57656)													
B.O.D./5 day	BRL	2.0	<4.0	<4.0	NC	101			102			70 - 130	20
QA/QC Batch 394189 (mg/L), QC Sample No: BY57533 (BY57656)													
Phosphorus, as P	BRL	0.01	0.626	0.63	0.60	101			99.9			85 - 115	20
Comment: Additional: LCS acceptance range is 85-115% MS acceptance range 75-125%.													
QA/QC Batch 394709 (mg/L), QC Sample No: BY57640 (BY57656)													
Ammonia as Nitrogen	BRL	0.05	0.25	0.29	14.8	104			103			90 - 110	20
Nitrogen Tot Kjeldahl	BRL	0.10	3.63	3.87	6.40	104			86.0			85 - 115	20
QA/QC Batch 393707 (mg/L), QC Sample No: BY58217 (BY57656)													
Nitrate-N	BRL	0.02	<0.02	<0.02	NC	98.4			100			90 - 110	20
Nitrite-N	BRL	0.01	0.010	0.02	NC	110			104			90 - 110	20

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference


Phyllis Shiller, Laboratory Director
July 24, 2017

Monday, July 24, 2017

Criteria: None

State: MA

Sample Criteria Exceedances Report
GBY57656 - BARNHARD

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
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*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



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Analysis Comments

July 24, 2017

SDG I.D.: GBY57656

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report: None.

